Use Attainability Analysis

for

WBID 3326 Rocky Branch

Submitted by Tetra Tech, Inc

To Missouri Department of Natural Resources Water Protection Program

APR 0 6 2005

Field Data Sheets for Recreational Use Stream Surveys

WATER PROTECTION PROGRAM

Data Sheet A - Water Body Identification

	Water Body Name: (from USGS 7.5' quad) へのとと (フェータ)
!	8-digit HUC: 10740017
	Missouri WBID #: ろうるし
	County: PLATTE
	Upstream Legal Description:
	Downstream Legal Description:
	Upstream Coordinates: (でき ・ (UGS 84, ddd.ddddd) 39.33276 - 094.5又57506 ・
	Downstream Coordinates: (UGS 84, ddd.ddddd) 39.36988 - 094,55837
	Discharger Facility Name(s): KC ROCKY BRANCH STP
	Discharger Permit Number(s): mo-664 8 305
	Number of Sites Evaluated: 6
	Name of Surveyor and Telephone Number: CHAO BARBOUR ! 410-756-8993
	Organization: TETRA TECH INC.
	Position: Associate Scientast
	he undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA tasheet is true and accurate.
Çi	med: CMAn Date: 03-25-45

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 73	·		Site Location I	Description:	
Site GPS Coordinates:	· · · · · · · · · · · · · · · · · · ·		REWLATED	KLESS, GATOD PAZVATO PI	iopgaty. Stie
Date & Time: O4 03	-14-05, 1430	<u></u>	Facility Name:		
Personnel: CHAO BANDO	UK. JERAMY BABI	76A	Permit Number	•	
Current Weather Condition	ONS: 40°E, PANTLY	CLOUDY	Weather Condi	tions for Past 7 days:	
Photo Ids: Upstream:		nstream:	Oth	er:	
Uses Observed*:					
☐ Swimming	☐ Skin diving	□ sct	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boa	nting	□ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fish	ning	☐ None of the above	☐ Other:
Surrounding Condition items of interest.)	S*: (Mark all that ¡	promote or imp	pede recreational	uses. Attach photos of eviden	nce or unusual
☐ City/county parks	☐ Playgrounds	☐ MDC cor	nservation lands		T_
	78			☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Urban areas	☐ Campgrounds ☐ Stairs/walkway
☐ Boating accesses ☐ No trespass sign	☐ State parks ☐ Fence	☐ National			☐ Campgrounds ☐ Stairs/walkway
	☐ Fence			☐ Nature trails	
☐ No trespass sign	☐ Fence	☐ Steep slop		☐ Nature trails	
□ No trespass sign Evidence of Human Use	□ Fence e*:	☐ Steep slop	pes	□ Nature trails □ Other:	☐ Stairs/walkway

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 73 Stream Morphology: **Upstream View Physical Dimensions:** Width (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): ☐ Pool Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Flow Estimated (ft³/sec): Present? ☐ Yes □ No **Downstream View Physical Dimensions:** Width (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): □ Run Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Flow Present? Estimated (ft³/sec): ☐ Yes □ No Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ Sewage ☐ Musky ☐ Chemical □ None ☐ Other: Color: ☐ Clear ☐ Green ☐ Gray ☐ Milky ☐ Other: **Bottom Deposit:** ☐ Sludge □ Solids ☐ Fine sediments □ None ☐ Other: Surface Deposit: ☐ Oil ☐ Scum ☐ Foam □ None ☐ Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: ONT M	Date: 03-14-05
Organization: TETRA TOCK INC.	Position: ASSETATE SCIENTIST
STR 03/14/05	





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 73	*		Site Location		
Site GPS Coordinates:	439.36998 WOO	4.5>337	THT LIDERT	y AD. Overlass	
Date & Time: 0/3-15-	05/0130		Facility Name	E KC, ROCKY BANNEN	STP .
Personnel: 24A9 BAN		la Boem	Permit Numb		
Current Weather Condit			Weather Con	ditions for Past 7 days:	
Photo Ids: Upstream:		vnstream: 15	51B 0	her:	
ses Observed*:					
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Во		☑ Wading & つ	☐ Rafting
☐ Hunting	Trapping	☐ Fisl		☐ None of the above	Other:
				to-documentation of evidence	
urrounding Conditio	ns*: (Mark all that t	promote or im	pede recreations	Il uses. Attach photos of evid	ence or unusual
urrounding Conditioners of interest.)	ns*: (Mark all that p	promote or im	pede recreations	ıl uses. Attach photos of evid	ence or unusual
	ns*: (Mark all that p	I .	pede recreations	·	ence or unusual □ Campgrounds
ems of interest.)	_	I .	nservation lands	·	T
cms of interest.)	☐ Playgrounds	☐ MDC co	nservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway
cms of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co	nservation lands	☐ Urban areas	☐ Campgrounds ☐ Stairs/walkway
cms of interest.) □ City/county parks □ Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co	nservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway
ms of interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co	nservation lands forests pes	☐ Urban areas ☐ Nature trails ☐ Other: AGRICUL	☐ Campgrounds ☐ Stairs/walkway
ems of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign vidence of Human Use ☐ Roads	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Foot paths/pri	☐ MDC co	nservation lands forests pes Oock/platform	☐ Urban areas ☐ Nature trails ☐ Other: AGNILUL ☐ Livestock Watering	☐ Campgrounds ☐ Stairs/walkway TURE ☐ RV / ATV Tracks

other items that may be of interest. (Include photographs)

*- ALTERNATE ACLES FOINT; ORIGINAL LOCATION NOT ACCESSIBLE. CEB

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^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

			10 13, 0 54, 0,			
	h (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	
□ Run Widt	h (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
☑ Pool Widt	h (ft): 15~	Length (ft): 200	Avg. Depth	(ft): 0.50	Max. Depth (ft): ?	173m
Flow Prese	ent? 🗆 Yes	☑ No	Estimated (ft ³ /sec):		
Downstream V	iew Physical	Dimensions:				
	h (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run Widt	h (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool Wide	h (ft): ≈15m	Length (ft): 20	Avg. Depth	(ft): N/A	Max. Depth (ft): 🗘	10m F1
☑ Flow Prese	ent? 🗆 Yes	M No	Estimated (i	ft ³ /sec):		
bstrate*: (Thes	e velvee should s	dd to 1000%)			F1: Toe DEEP MEANULE	
15 % Cobb		Gravel 70	% Sand 15	% Silt	% Mud/Clay	% Bedroc
stor Character	iotion#. O.s. 1					
		all that apply.)				
Odor:	☐ Sewage	□ Musky	☐ Chemical	☑ None	☐ Other:	
Odor: Color:	☐ Sewage	☐ Musky	☐ Gray	☑ Milky	☑ Other: ∱\u00e4\	
Odor: Color: Bottom Deposit:	☐ Sewage ☐ Clear ☐ Sludge	☐ Musky ☐ Green ☐ Solids	☐ Gray ☐ Fine sediments	☑ Milky □ None		
Odor: Color:	☐ Sewage	☐ Musky	☐ Gray	☑ Milky	☑ Other: ∱\u00e4\	
Odor: Color: Bottom Deposit: Surface Deposit: omments: Pleas his information is raprehensive undersision on the recrea the undersigned tasheet is true	☐ Sewage ☐ Clear ☐ Sludge ☐ Oil e attach additing to to be used solution use analysis and accurate.	☐ Musky ☐ Green ☐ Solids ☐ Scum onal comments (integrated for removal of a reconditions. Consequent to conditions for the best of	Gray Fine sediments Foam cluding informate ecreational use designantly, this information ditions that need furth	Milky None None None ion from intenation but rather is not intende her analysis or the	☑ Other: 『Show.』	
Odor: Color: Bottom Deposit: Surface Deposit: omments: Pleas his information is raprehensive undersision on the recrea the undersigned tasheet is true gned:	☐ Sewage ☐ Clear ☐ Sludge ☐ Oil e attach additing to to be used solution use analysis d, hereby affiand accurate.	☐ Musky ☐ Green ☐ Solids ☐ Scum onal comments (in the left of th	Gray Fine sediments Foam Including informate ecreational use designently, this information ditions that need furth my knowledge, to	Milky None None None None None None None None	Other: Provide a More d to directly influence a hat effect another use.	this UAA
Color: Bottom Deposit: Surface Deposit: omments: Pleas his information is raprehensive understain on the recreate the undersigned tasheet is true	☐ Sewage ☐ Clear ☐ Sludge ☐ Oil e attach additing to to be used solution use analysis d, hereby affiand accurate.	☐ Musky ☐ Green ☐ Solids ☐ Scum onal comments (in the left of th	Gray Fine sediments Foam Including informate ecreational use designently, this information ditions that need furth my knowledge, to	Milky None None None None None None None None	Other: Provide a Other: Type of the control of the	this UAA
Odor: Color: Bottom Deposit: Surface Deposit: omments: Pleas his information is raprehensive understision on the recrea the undersigned tasheet is true gned:	Sewage Clear Sludge Oil e attach additing of to be used solution use analysis and accurate.	☐ Musky ☐ Green ☐ Solids ☐ Scum onal comments (in the left of th	Gray Fine sediments Foam Including informate ecreational use designently, this information ditions that need furth my knowledge, to	Milky None None None None None None None None	Other: Provide a More d to directly influence a hat effect another use.	this UAA

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Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 74			Site Location D			
Site GPS Coordinates:			SITE RELOCA	ACCESS. GATED PATUATE	Proferty.	
Date & Time: 03-14-0)5,1430		Facility Name:			
Personnel: CHAO BAR	BOUR JERMANY A	ibegn	Permit Number	:		
Current Weather Condit	ions: 400 F, PAGTE	y CLOUBY	Weather Conditions for Past 7 days:			
Photo Ids: Upstream:		wnstream:	Othe	er:		
Jses Observed*:						
	П си за	П.60	TTD A 41-4-			
Swimming	☐ Skin diving		UBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Bo		□ Wading	Rafting	
☐ Hunting	☐ Trapping	☐ Fis		None of the above o-documentation of evidence	☐ Other:	
	IS*: (Mark all that	promote or im	npede recreational	uses. Attach photos of evide	nce or unusual	
	ns*: (Mark all that	T.	npede recreational	uses. Attach photos of evide	nce or unusual Campgrounds	
ems of interest.)		T.	enservation lands	·		
ems of interest.) □ City/county parks	☐ Playgrounds	☐ MDC co	onservation lands	☐ Urban areas	☐ Campgrounds	
ems of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co	onservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds	
ems of interest.) City/county parks Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co ☐ National ☐ Steep slo	onservation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds	
ems of interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co ☐ National ☐ Steep slo	onservation lands forests	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway	

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Mo Upstream		y: Physical Di	mensions:				
☐ Riffle	Width (ft):	Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
☐ Run	Width (ft):	Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
☐ Pool	Width (ft):	Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
☐ Flow	Present	? □ Yes	□ No	Estimated	(ft ³ /sec):		-
Downsti	ream Vie	w Physical	Dimensions:				
☐ Riffle			Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
□ Run	Width (ft):	Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
☐ Pool	Width (ft):	Length (ft):	Avg. Dept	h (ft):	Max. Depth (ft):	
☐ Flow	Present's	?	□ No	Estimated	(ft ³ /sec):		
Substrate*	: (These v		add up to 100%.) 6 Gravel	% Sand	% Silt	% Mud/Clav	% Redrock
	% Cobbie	9	Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
Water Cha	racterist	ics*: (Mark ☐ Sewage	all that apply.)	☐ Chemical	□ None	☐ Other:	
Color:		□ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:	
Bottom I	Deposit:	□ Sludge	☐ Solids	☐ Fine sediment		☐ Other:	
Surface I	Deposit:	□ Oil	☐ Scum	☐ Foam	□ None	☐ Other:	
*This informs comprehensiv decision on th	ersigned, s true an	to be used soluting of water use analysis hereby affid accurate	lely for removal of reconditions. Consider to the best irm to the best	a recreational use desi equently, this informationditions that need fut of my knowledge. Date:	gnation but rather tion is not intendent ther analysis or the that all infor	d to directly influence a hat effect another use. mation reported or	
	11	R 03	/14/05				
Septe	ember 29, 2	2004	·			Pa	ge 19





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	}		Site Location De		
Site GPS Coordinates: A	134,3(37) Work	·5603]>	1130161200	Central services	
Date & Time: 03-15-0	51015		Facility Name:	KC ROCKY BRANCH ST	t d'
Personnel: CHAN BAN	BOUR, JERANY	RODUEN	Permit Number:		
Current Weather Condition	ions: 46 F. PANTL	Y CLOUDY	Weather Conditi	ons for Past 7 days:	
Photo Ids: Upstream:	1548 B Dow	nstream: 15	7579 Other	r:	
ses Observed*:					
	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boa	ating	☑ Wading cut	□ Rafting
☐ Hunting	Trapping Ce	☐ Fist	ning	☐ None of the above	☐ Other:
Describe: (include numb	er of individuals fec				
arrounding Condition				ses. Attach photos of evide	nce or unusual
arrounding Condition		promote or im			nce or unusual
arrounding Conditions of interest.)	ns*: (Mark all that p	promote or im	pede recreational u	ises. Attach photos of evide	1
rrounding Condition ms of interest.) □ City/county parks	ns*: (Mark all that p	oromote or im	pede recreational unservation lands	ses. Attach photos of eviden ☐ Urban areas	☐ Campgrounds ☐ Stairs/walkway
arrounding Condition ms of interest.) ☐ City/county parks ☐ Boating accesses	ns*: (Mark all that p Playgrounds State parks Fence	oromote or im MDC co	pede recreational unservation lands	ses. Attach photos of evider Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway
rrounding Condition ms of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	ns*: (Mark all that p Playgrounds State parks Fence	oromote or im ☐ MDC co ☐ National ☑ Steep slo	pede recreational unservation lands	ses. Attach photos of evider Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway
rrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that p Playgrounds State parks Fence	oromote or im □ MDC co □ National ☑ Steep slo	pede recreational unservation lands forests pes	Ses. Attach photos of evider ☐ Urban areas ☐ Nature trails ☑ Other: △৻৻৻৻৴৴	☐ Campgrounds ☐ Stairs/walkway

September 29, 2004

JOR-03-15-05

A-ALTERNATE SATE LOCATION: ON JEJNAL LOCATION NOT ACCESSIBLE, COA

may point to conditions that need further analysis or that effect another use.

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Stream Mor Upstream			mensions: 0	1 2 , 0,4 , 5,6	ر. و ر ت ر و ر	á		
□ Riffle	Width (Length (ft):		Avg. Depth		Max. Depth (ft):	
□ Run	Width (ft):	Length (ft):	F	Avg. Depth	(ft):	Max. Depth (ft):	
2 Pool	Width (ft): 3.5 _	Length (ft):	20m - A	Avg. Depth	(ft): 0.5m	Max. Depth (ft):	とうm
☑ Flow	Present	? 🗹 Yes	□ No	I	Estimated (ft ³ /sec): 4 _m = /	755: 4m=30; 4m=7 Phow=0.05 mls	75
Downstro	am Via	w Physical	Dimensions:			1 2 21	Phow = 0.05 mls	
□ Riffle	Width (Length (ft):		vg. Depth		Max. Depth (ft):	
Run		ft): 11.5m	Length (ft):		Avg. Depth	(ft): 6.12m	Max. Depth (ft):	0.51
□ Pool	Width (Length (ft):		Avg. Depth		Max. Depth (ft):	
回 Flow	Present		□ No				3) 4m=35:4m=95	
<u> </u>							FLOW = 0.48 mls]	
	(These v		dd up to 100%.) Gravel 5		30	% Silt	% Mud/Clay	% Bedrock
Water Char	acterist	iCS*: (Mark ☐ Sewage	all that apply.)	□ Chen	nigal	☑ None	☐ Other:	
Color:		☐ Clear	☐ Green	☐ Gray		Milky	Other: BASI	٠
Bottom De	posit:	□ Sludge	☐ Solids		sediments	□ None	Other: 5/400	*
Surface De		□ Oil	☐ Scum	☐ Foam		☑ None	Other:	
*This informati	on is not understar	to be used sol	ely for removal of conditions. Co	of a recreationa	l use desig	nation but rathe	erviews) to this form or is to provide a more ed to directly influence a that effect another use.	
datasheet is	true an	d accurate	•				rmation reported o	n this UAA
Signed:	IME	Ihr			_Date:_	03-15-05	***************************************	
Organization	: Ter	MA TECH	JNE.		Positic	n: <u>/<</u> 3366JA	TO SCIENTIST	
			03-1			•		•

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 75				Site Locat	on Des	scription:	
	Site GPS Coordinates: N 3	M. 39383 WOA	u 5711	3	Unnamed	2 5 TM	get off of At. 169.	
	Date & Time: 03-14-05		11.57	-	Facility Na	me: ½	LC BOCKY BRANCH ST	>
	Personnel: CHAD DANK				Permit Nu		VIOLEY DIODER	
	Current Weather Condition	ons: 40°F, 146-	TLY CLAS	YOY	Weather C	onditio	ns for Past 7 days:	
	Photo Ids: Upstream: 15	34 B Do	wnstream		553	Other:		
Us	es Observed*:							
	☐ Swimming	☐ Skin diving	I	□ scu	BA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking	1	☐ Boat	ting	- 1.	☐ Wading	☐ Rafting
	☐ Hunting	☐ Trapping		□ Fishi	ing		Mone of the above	☐ Other:
	rrounding Condition	8*: (Mark all that	promote	or imp	ede recreati	onal us	es. Attach photos of evider	nce or unusual
Itti	☐ City/county parks	☐ Playgrounds	Том	DC con	servation la	nds	☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks		tional f	orests		☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☑ Fence	☐ Ste	ep slop	es		☐ Other:	· · · · · · · · · · · · · · · · · · ·
Ev	idence of Human Use	e*: NONE					• .	
	□ Roads	☐ Foot paths/pr	rints	□ Do	ock/platform		☐ Livestock Watering	□ RV / ATV Tracks
	☐ Rope swings	☐ Camping Site	es	□ Fir	e pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	☐ Other:							
	in the second							

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morph Unstream V		al Dim	ensions: 0.6,	ര. പ്രക	. o.u3 o	<u>ਂ</u>	•	· ·
	idth (ft):		Length (ft):		vg. Depth		Max. Depth (ft)	
□ Run W	idth (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft	
Y Pool W	idth (ft):	- M	Length (ft):	4	Avg. Depth	(ft):	Max. Depth (ft)): 0,6m
☐ Flow Pi			M No]	Estimated (fi	t ³ /sec):		
Downstroom	View Phy	reical F	Dimensions: ©	2 62	0.33 02	~ · · ·		
	idth (ft):	ysicai L	Length (ft):		Avg. Depth (" ··	Max. Depth (ft)	
	idth (ft):		Length (ft):		Avg. Depth (Max. Depth (ft)	····
	idth (ft): 3	17m	Length (ft): 🙃	in 1	Avg. Depth ((ft): O. A	Max. Depth (ft)	
☐ Flow Pr			□ No	I	Estimated (ft	3/sec): 4m=2	05; 4m= 205; 4m	
•							FLOW = 0.19 m)	5
Substrate*: (T	hese values s		d up to 100%.) Gravel	% Sand	60	% Silt	% Mud/Clay	% Bedrock
Water Charact						······································		
Odor:	☑ Se	wage	☐ Musky	☐ Cher	nical	□ None	☐ Other:	
Color:	☐ Cle	ar	☑ Green	☐ Gray		☐ Milky	☐ Other:	"
Bottom Depos	sit: 🗆 Slu	idge	☐ Solids	☑ Fine	sediments	□ None	☐ Other:	
Surface Depos	sit: 🗆 Oil	<u> </u>	□ Scum	☐ Foar	n	None	☐ Other:	
Comments: Ple	ease attach	additio	nal comments	(including	; informati	ion from inte	erviews) to this for	m.
comprehensive und	derstanding o	of water c	onditions. Conse	quently, thi	s information	n is not intende	r is to provide a more ed to directly influence hat effect another use.	e a
l, the undersig datasheet is tru			m to the best o	of my kno	wledge, t	hat all infor	mation reported	on this UAA
Signed:	Chal		and the second s		_Date:_	03-14-05		-
Organization:_	TETNA T	ECH -	INC.		Position	n: ASSOCJAT	e Scientist.	***
	OTR	03/	14/05					





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 76				Site Location	on Des	scription:	•
Site GPS Coordinates: N	39.34830 W	094,57	558	BALIGE	しらひろ	ING ON NE 140 STREE	1
Date & Time: 03-14-0				Facility Na	me: K	C BOCKY BRANCH ST	P
Personnel: CHAN BANK	YMANJE, HUDE	800001	~	Permit Nur			
Current Weather Conditi				Weather Co	onditio	ons for Past 7 days:	
Photo Ids: Upstream:			ım: 153	29	Other:		,
Uses Observed*:							
☐ Swimming	☐ Skin diving		□ scu	BA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking		□ Boat	ing		Wading Con	☐ Rafting
☐ Hunting	M Trapping C	(b)	☐ Fishi	ng		☐ None of the above	☐ Other:
Describe: (include numb SPOKE TO LOCAL VERY SUDSY, BLAN	MES I TOUSEN	AGE TI	neatme	NT PLANT	57n) :	gams smolls like	UASTE AND IS
SPOKE TO LOCAL T	NES I TONSEW	AGG TI	Keatme	NT PLANT	•		
SPOKE TO LOCAL TO VERY SUDSY, BLAN	NES I TONSEW	at promo	te or impo	NT PLANT	onal us		
SPOKE TO LOCAL VERY SUDSY, BLAN	NES I Tonsew	at promo	te or impo	ede recreation	onal us	es. Attach photos of evide	nce or unusual
SPOKE TO LOCAL VERY SUDSY, BLAN Surrounding Condition tems of interest.) City/county parks	NES ∓ 70, S € W as*: (Mark all the	at promo	te or impo	ede recreationservation lan	onal us	es. Attach photos of evidence. Urban areas Nature trails	nce or unusual Campgrounds Stairs/walkway
SPOKE TO LOCAL VERY SUDSY, BLAN Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that □ Playground □ State parks □ Fence	at promo	te or imposed for the constant of the constant	ede recreationservation lan	onal us	es. Attach photos of evide	nce or unusual Campgrounds Stairs/walkway
SPOKE TO LOCAL VERY SUDSY, BLAN Surrounding Condition tems of interest.) City/county parks Boating accesses	ns*: (Mark all that □ Playground □ State parks □ Fence	at promo	te or imposite or imposite on	ede recreationservation lan	onal us	es. Attach photos of evidence. Urban areas Nature trails	nce or unusual Campgrounds Stairs/walkway
SPOKE TO LOCAL VERY SUDSY, BLAN Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	State parks □ Fence □ Fence	at promo	te or imposite or imposite on	ede recreation landorests	onal us	es. Attach photos of evider ☐ Urban areas ☐ Nature trails ☑ Other: 为ESIDE~TI	Campgrounds Stairs/walkway

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morpholo Upstream Viev		ensions: ०.५	, o.5a, o.	.6, 0,3a	, ०.। २			
	h (ft):	Length (ft):		vg. Depth			Max. Depth (ft):	
□ Run Widt	n (ft):	Length (ft):	A	vg. Depth	(ft):		Max. Depth (ft):	
☑ Pool Widt	n (ft): 8.8 (m)	Length (ft):	30 (w) A	vg. Depth	(ft): 0,39	(m)	Max. Depth (ft):	0.6 (m)
☐ Flow Prese	nt? (VYes	☑ No	Е	stimated (f	t³/sec): NoT	neasuri	EADLE DUE TO LO	
Downstream V	iew Physical D	imensions: /			שטית	ONEU	-	
	h (ft):	Length (ft):		vg. Depth			Max. Depth (ft):	-
	n (ft): 4.5 (m)	Length (ft):	20(m) A	vg. Depth	(ft): 0.091		Max. Depth (ft):	0.2(n)
	h (ft):	Length (ft):		vg. Depth		<u>~~ }</u>	Max. Depth (ft):	0.2(4)
☐ Flow Prese	nt? ☑ Yes	□ No	Е	stimated (f	t³/sec): μ _M =	1D. · Y.	n=45;4m=85	
Substrate*: (Thes	a volues should add	lum to 10005)				FI	LOW = 0-44 MIS	
२० % Cobb		ravel	% Sand	40	% Silt	40 9	% Mud/Clay	% Bedrock
Water Character								
Odor:	☐ Sewage	☐ Musky	☐ Chem	ical	□ None		図Other: かいふ	тУ
Color:	□ Clear	☑ Green	☐ Gray		☐ Milky		Other:	
Bottom Deposit:	☐ Sludge	☐ Solids	· · · · · · · · · · · · · · · · · · ·	sediments	□ None		Other:	
Surface Deposit:	□ Oil	☐ Scum	☐ Foam		None		☐ Other:	
*This information is n comprehensive unders decision on the recrea	ot to be used solely tanding of water of	y for removal of onditions. Cons	a recreational	l use desigr informatio	ation but ra	ther is to	provide a more directly influence	
I, the undersigned datasheet is true	l, hereby affiri			wledge, t	hat all inf	ormati	ion reported o	n this UAA
Signed:	UNV			_Date:	3-14-05			
Organization:	ETRA TECH IN	ζ.	,	_ Position	n: <u>Associ</u>	EATE S	KIENTIST	
JVI	2-03-1	14-05						





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 77	Site Location Description:								
Site GPS Coordinates:	Site GPS Coordinates: Date & Time: 03-14-05 Personnel: CHAP BARBOUN, JERAMY RADITEN				COULD NOT ACCESS SITE, GATED PARVATE PROPERTY. Facility Name: Permit Number:				
Date & Time: 03-14-									
Current Weather Condition	Current Weather Conditions: 40°F, PARTLY CLOUDY				Weather Conditions for Past 7 days:				
Photo Ids: Upstream:				Other:					
Uses Observed*:									
☐ Swimming	☐ Skin diving	□ sc	UBA diving		☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□Во	ating		☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	☐ Fis	hing		☐ None of the above	☐ Other:			
Describe: (include numb	er of individuals rec	reating, frequ	ency of use, p	hoto-d	ocumentation of evidence	of recreational uses, etc.)			
						• •			

Surrounding Condition items of interest.)	ns*: (Mark all that)	promote or im	pede recreation	onal use	es. Attach photos of evide	nce or unusual			
☐ City/county parks	☐ Playgrounds	☐ MDC co	nservation la	nds	☐ Urban areas	☐ Campgrounds			
☐ Boating accesses	☐ State parks	☐ National	forests		☐ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	☐ Steep slo	pes						
Evidence of Human Us	se*:					<i>i</i>			
☐ Roads	☐ Foot paths/pri	nts 🗆 I	Oock/platform	l	☐ Livestock Watering	□ RV / ATV Tracks			
☐ Rope swings	☐ Rope swings ☐ Camping Sites ☐ F				☐ NPDES Discharge	☐ Fishing Tackle			
☐ Other:									
<u> </u>					· · · · · · · · · · · · · · · · · · ·				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – Data Sheet B for WBID # 77 **Stream Morphology: Upstream View Physical Dimensions:** Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Riffle ☐ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Pool Estimated (ft³/sec): ☐ Flow Present? ☐ Yes □ No **Downstream View Physical Dimensions:** Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Run ☐ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Estimated (ft³/sec): ☐ Flow Present? ☐ Yes □ No Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ Sewage ☐ Chemical ☐ None ☐ Other: ☐ Musky Color: ☐ Clear ☐ Green ☐ Gray ☐ Milky ☐ Other: **Bottom Deposit:** ☐ Solids ☐ Fine sediments ☐ Sludge □ None ☐ Other: Surface Deposit: □ Oil ☐ Scum ☐ Foam ☐ None ☐ Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: OUT M	Date: 03-14-05
Organization: TETMA TECH INC.	Position: ASSECTATE SCIENTISY
WR 09/14/05	

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 7	7*		Site Locatio	Site Location Description: UNDER ROUTE 435 OVERPASS.				
Site GPS Coordinates	N39-31075 4	1094,5k	338 " ONDER 10"	Facility Name: KC. BOOKY BRANCH STP				
Date & Time: 13.15.								
Personnel: CHAD &	Personnel: CHAD BARBER, JEDAMY ROBER			Permit Number:				
Current Weather Cond	litions: ಆವಾರ್ (DUENCAS	Weather Co	Weather Conditions for Past 7 days:				
Photo Ids: Upstream:				Other:				
Js <u>es Observed*:</u>								
☐ Swimming	☐ Skin divi	ng	☐ SCUBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	g	☐ Boating	☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping		☐ Fishing	None of the above	☐ Other:			
Describe: (include nur VERV SHALLOW:	UITH BEDAG	14 (SOT	TOAL					
urrounding Conditi	USTN BEDNO			al uses. Attach photos of evid	ence or unusual			
VERY SHALLOW	Ons*: (Mark all	that promo						
urrounding Conditi	USTN BEDNO	that promo	ote or impede recreation		☐ Campgrounds			
urrounding Conditions of interest.)	Ons*: (Mark all	that promo	ote or impede recreation	s Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway			
urrounding Conditiens of interest.) City/county parks Boating accesses No trespass sign	Ons*: (Mark all Playgrou State parl	that promo	ote or impede recreation MDC conservation land National forests	s Urban areas	☐ Campgrounds ☐ Stairs/walkway			
urrounding Conditiens of interest.) City/county parks Boating accesses No trespass sign	Ons*: (Mark all Playgrou State parl	that promo	ote or impede recreation MDC conservation land National forests	s Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway			
Urrounding Conditiens of interest.) City/county parks Boating accesses No trespass sign	Ons*: (Mark all Playgrou State parl	that promo	ote or impede recreation MDC conservation land National forests Steep slopes	S ☐ Urban areas ☐ Nature trails ☑ Other: Ḥ♡♥♥♥♥ ♥€	☐ Campgrounds ☐ Stairs/walkway			

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but

* ALTERNATE SITE LOCATION - BRIGINAL LOCATION NOT ACCOUNTED. COD

63-65-05

September 29, 2004

may point to conditions that need further analysis or that effect another use.

ream Morpholo Upstream View	~•	mensions:	0,1,0,1,0,0,20,0	.53 n	•	
☐ Riffle Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
☑ Run Width	(ft): ?,2M	Length (ft): 🚬	Avg. Depth	(ft): 0,02m	Max. Depth (ft):	0.10
□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
☑ Flow Preser	nt? ⊻Yes	□ No	Estimated (1	t³/sec): 🏖 🗀 🗆 🗀	55; Rm=Hos Rm=16	
Downstream Vi	ew Physical	Dimensions:0. 0	1, 0.02, 0.03, 0.0		FLOW = 0,25m	15
☐ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
☑ Run Width	(ft): 🔾,8 _M	Length (ft): ஒ	Avg. Depth	(ft): 002~	Max. Depth (ft):	0.03m
□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Flow Preser	nt? 🔯 Yes	□ No	Estimated (f	t³/sec): Q _m = 0	201, 2n=7011 2n=	ನಿಕಿತ
bstrate*: (These	values should a	dd up to 100%.)		-	FLOW = 0. 20 MI)	
% Cobbl		Gravel	% Sand 10	% Silt	% Mud/Clay 9	D % Bedrocl
ter Characteri Odor:	☐ Sewage	III that appry.) ☐ Musky	☐ Chemical	☑ None	☐ Other:	
Color:	☑ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:	
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	□ None	☐ Other:	
Surface Deposit:	□ Oil	□ Scum	☐ Foam	None	☐ Other:	<u> </u>
is information is no apprehensive underst ision on the recreati he undersigned tasheet is true a	ot to be used solution and ing of water on use analysis, hereby affind accurate	ely for removal of a conditions. Consect but may point to co	recreational use design quently, this information anditions that need furth of my knowledge, t	nation but rathe on is not intendence ner analysis or t hat all infor	ed to directly influence	a on this UAA
ganization: 16	TNA TOCH	JNG- 15- (Positio	n: Musica	16 Scientist	





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 78			Site Location Description:				
Site GPS Coordinates: N	31.33270 WO94	57506	CLOSED BRIDGE AT END 18 OF AT 132				
Date & Time: 3/14/05	<u> </u>		Facility Name: KC ROCKY BRANCH STP				
Personnel: CHAD DANDO	UR, DERANY ROBI	een	Permit Number:				
Current Weather Condition	ons: 40°F, Suv.	~/	Weather Conditions for Past 7 days:				
Photo Ids: Upstream: 7			1530 Other	" NIA			
Uses Observed*:							
Swimming	☐ Skin diving		JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□ Boa	 	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish		None of the above	Other:		
				documentation of evidence			
			· · · · · · · · · · · · · · · · · · ·				
Surrounding Condition	に本・/Mark all that m	romote or imi	ada racrasticas lu	ses: Attack whatas of avida			
items of interest.) NONE	o . (Mark an that p	romote or ma	ede recreationar u	ses. Attacti photos of evider	ice of unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC cor	servation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	☐ Steep slop	opes				
Evidence of Human Us	o ≭.						
M Roads	T T	<u> </u>	1-/-1-+f		C DY/AMY/M		
	☐ Foot paths/prir		ock/platform	☐ Livestock Watering	□ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	U Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:							
~~. <u>-</u>							

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morpholo Upstream View		nensions: 0.03	, 1،০, ০,৫৯, ১.০৯	881		
i i	h (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	
Run Widt	h (ft): 1.3(m)	Length (ft): 🚉	Avg. Depth	(ft): 0.22 (n)		b / a \
	h (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	- (///)
☐ Flow Prese	ent? Yes	□ No	Estimated (1	ft³/sec): 5 105 1	5m=105; 5m=8s	
Downstroom V	iow Dhysical 1	Nimonoiones a			FWW= 0.431	>]
	h (ft):	Length (ft):	02, 0.14, 0.22. Avg. Depth		Max. Depth (ft):	
	h (ft): 5,1 (m)	7 .1 (0)		(ft): 0.32 (1)	Max. Depth (ft):	
	h (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	5(m)
☐ Flow Prese	ent? Yes	□ No			4n=185 : 4n=166	
				1/11/1/1/5	FLOW = 0.24 115	<u>.</u> .
Substrate*: (These		Id up to 100%.) Gravel 5	% Sand 80	g C:1. I	736 46	
	10 70	Olavei 3	% Sand 80	% Silt	% Mud/Clay	% Bedrock
Water Character Odor:	-					٠.
	☐ Sewage	☐ Musky	☐ Chemical	☑ None	Other:	
Color:	☐ Clear	☑ Green	☑ Gray	☐ Milky	Other:	
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	□ None	☐ Other:	
Surface Deposit:	□ Oil	□ Scum	□ Foam	None	☐ Other:	
This information is no comprehensive unders lecision on the recreated, the undersigned latasheet is true a signed:	ot to be used solel tanding of water of ion use analysis belong the solel tanding of water of ion use analysis belong the solel tanding the solel tanding the solel tanding the solel tanding tanding the solel tanding tandin	y for removal of a conditions. Consequent may point to comm to the best of	Date:	nation but rather is to it is not intended to the analysis or that the that all informations.	to provide a more directly influence a effect another use.	nis UAA
Organization: T	ETRA TECH I	NC.	Position	1: Assoc SATE	SCIGNTIS T.	-



